



The Raleigh Amateur Radio Society's **EXCITER**

GET INVOLVED

- RARS General Membership meeting: **Second Tuesday** of the month.
- The RARS net meets every night except Saturday @ 8 p.m. on 146.640.
- The RARS Technical & Trader's net: Saturdays @ 8:00 PM on 146.64.
- RARS meets for a monthly dinner on the **First Tuesday** of each month.
- On the **fourth Tuesday** of every month, in-person meeting at Ridge Road Baptist Church where there will be project tables, demos, snacks, and socializing.



PUBLIC SERVICE EVENTS

Interested in helping? Visit
<https://www.rars.org/public-service.php>

frequently for our ham public service schedule.

RARS General Meeting

Date: March 12, 2024

Main Topic: RARSfest

By: Nancy Torborg, KB2TNR

Time: Zoom Meeting at 7:30 PM,
informal gathering at 7PM

And the Annual RARS Recognition
Presentations Presented by Fin Gold,
NC4FG

RARS In Person Meeting

Date: March 26, 2024

Where: Ridge Road Baptist Church

Time: 7:00 PM

In-person meeting at Ridge Road Baptist Church
where there will be project tables, demos, snacks,
and socializing.



RARSfest April 6, 2024

Latest info —> [RARSfest - The NC Capital Area Hamfest](#)

Experience the Largest All-Indoor Hamfest on the East Coast
and the 2024 [ARRL Roanoke Division](#) Convention!
Brought to you by the [Raleigh Amateur Radio Society](#)

Door Prizes for 2024!

Grand Prize

[Yaesu FTDX10 HF Radio](#)

First Prize

[Yaesu FTM-500DR FM/C4FM](#)

[Dual Band Mobile](#)

“Early Bird” Prize

[ICOM IC-2730A Dual Band Mobile](#)

Volunteer Prize

[Yaesu FT-70DR Dual Band Handheld Radio](#)

PLUS! Hourly drawings for other fabulous prizes! See the [Door Prizes](#) page for details.
Please note that complimentary tickets are not eligible for prize drawings.

Volunteers are needed, [please sign up here](#).

You do not need to be a RARS member to volunteer!
Complimentary admission and a [special prize drawing](#) for volunteers

RARSfest April 6, 2024

General Admission

- \$10 during the “Early Bird” period from January 30 through March 30
- There will be a **special prize drawing** for people who buy their tickets during the “Early Bird” period
- \$12 after March 30
- Admission for attendees age 16 and under will continue to be complimentary when accompanied by a paying adult

Admission will also be complimentary for anyone earning their first amateur radio license at our [license exam session](#). Details at the exam session.

Use the [main entrances](#) to the Jim Graham Building

See [here](#) for details and to order on-line from January 30 through March 30, 2024.

Commercial Area

- For commercial sellers of **new** amateur radio and related equipment, and non-commercial exhibitors
- Located in a prime traffic area at the front of the show floor
- Your choice of attractive 10' x 10' booth space or eight-foot tables in a custom arrangement (space permitting)
- Power outlets available
- Reasonably priced
- Easy setup and take-down—drive to your space!

Use the [load-in \(a/k/a "Flea Market"\) entrance](#) to the Jim Graham Building

See [here](#) for details, pricing, and how to request space in the Commercial Area. The deadline for ordering is March 30, 2024, one week prior to RARSfest.

Flea Market

- For clubs and non-commercial sellers of **used** amateur radio and related equipment
- Eight-foot table with two chairs
- \$23 from January 30 through March 30
- \$27 after March 30
- 120 VAC Power—\$25 per connection. Bring your own extension cords

Prices do **not** include admission. You must [purchase general admission tickets separately](#).

Use the [load-in \(a/k/a "Flea Market"\) entrance](#) to the Jim Graham Building

See [here](#) for details and to order on-line from January 30 through March 30, 2024.

RARS Officers

PRESIDENT

Fin Gold
NC4FG
nc4fgfin@gmail.com

VICE PRESIDENT

Chuck Till
K4RGN
k4rgn@outlook.com

SECRETARY

Julie Royster
KT4JR
919-782-1624
KT4JR@arrl.net

TREASURER

Greg Seamster
KE4PAX
919.859.0029
KE4PAX@arrl.net



The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.

Anyone interested in amateur radio is eligible to apply for membership. Regular dues for licensed amateurs are \$18 per year. (From July 1 through June 30.) Additional licensed immediate family members pay \$5 each per year. Dues for licensed full-time students and licensed seniors 60 and over are \$12 per year. Unlicensed individuals may become associate members for \$9 per year. Applications for membership are available from the treasurer or on the RARS web site.

<https://www.rars.org>

Exciter

The Exciter is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at www.rars.org. Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.

The Exciter welcomes articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor. The Editor reserves the right to edit any and all pieces. The submission deadline for each month's Exciter is the Saturday that is ten days before the general meeting. All submissions must be final. Drafts are not accepted.

The views expressed in the Exciter are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

Tom Lewis, N4TL, editor (editor@rars.org)

Exciter President's Message for March 2024

Do you feel that? There is an energy in the air. Just attend any RARS event and you'll feel it. It's the feeling of excitement about all the new ideas happening and great opportunities available to hams both inside and outside our club to learn and have fun.

The recent **RARS Gathering** had 38 attendees, many projects to see and discuss, VE testing, visitors, new members, club officers, food, fellowship, ideas, innovation, HF radio calls, a home-made repeater demo, and more.

Events like this are so fulfilling for a curious ham, that I didn't want to leave. One attendee told me "The energy and participation that members show in RARS is inspiring!". And it is not just this event. Go to a POTA event, a Public Service bike race, even a RARS dinner. You'll hear interesting discussions and find ways to participate in club activities.

The Board of Directors continues to look for better ways to communicate with you and help serve your interests. We've created 2 new committees just for that and are already coming up with helpful ideas. Stay tuned for exciting updates!

The **NC QSO Party** went great! The RARS Club station ended the 10-hour contest with 993 calls, 527 of those made with CW all by one ham: Brantley West, K4CBW. The rest were made by multiple operators taking turns throughout the day. Several visitors, great discussion and learning rounded out the experience. We ended up getting calls from 45 states and 74 of 100 NC counties. Thank you to all involved, especially those that stayed for the day.

Who wants a free ticket to **RARSfest**? Just sign up to volunteer and you're in. And get in the volunteer-only prize drawing for a Yaesu FT-70DR Dual Band FM/C4FM HT.

NOW is the time to sign up at: [HERE](#)

As always, please feel free to contact me with any suggestions about the club. I want to hear your ideas! They will get heard and considered. Even better, come to an event and talk with me!

Happy March and Radio on!

73,
Fin Gold, NC4FG



February 13, 2024 RARS meeting

Fin Gold, NC4FG, RARS President, started the meeting at 7:30. The pledge of allegiance was recited. Various reports were given. See the [minutes](#) for more information about the meeting. Chuck Till, K4RGN introduced the speaker, RARS President, Fin Gold, NC4FG. The topic was the North Carolina QSO Party. A few slides from the presentation are next. It is available on the [RARS website](#).

The meeting was adjourned at 8:33PM.



Fin Gold, NC4FG, RARS President. Screen capture during the meeting.



Chuck Till, K4RGN,
RARS VP.
Screen capture during
the meeting.

February 13, 2024 RARS meeting, continued

North Carolina QSO Party



FEBRUARY 25, 2024
WWW.NCQSOPARTY.ORG

54 Year History

- Started in 1970 by the Raleigh Amateur Radio Society – RARS
- Alamance ARC took it for a few years in the 90's
- AARC Coordinator Dwayne Ayers, N4MIO
- Forsythe ARC took it over in 2002
- FARC Coordinator Henry Heidtmann, W2DZO for 10 years
- From 2013 to today, RARS has been the sponsor
- NCQP now administered by a committee of 7 plus several Advisory Members

Screen captures of some of the slide used in the presentation.

February 13, 2024 RARS meeting, continued



What is the NC QSO Party?

- On Air radio contest event
- Voice, CW & Digital
- 80 through 2 meters
- In-state seek NC counties and elsewhere
- Out-of-state seek NC stations
- You are the Belle of the Ball
- Be an Ambassador for North Carolina
- You don't have to be a "Contester"
- Everyone has fun



First NCQP was held Nov. 7-9, 1970
54 years ago!

Won by Bill McDowell, K4CIA with 345 QSOs

Screen captures of some of the slide used in the presentation.

<https://www.rars.org>

February 13, 2024 RARS meeting, continued

NCQP COMMITTEE

Marty Young, W4MY, Chairman

Marc Sullivan, W4MPS, Logs Manager

Dwayne Ayers, N4MIO, Awards Manager

Andy Peterson, AA9P, IT Manager

Steve Jenkins, W4MGT, Webmaster

Bob Starkenburg, W4TTX, Eastern NC At-Large Member

Marty Wood, N4AMW, Western NC At-Large Member

ADVISORY BOARD

Bill Morine, N2COP, Vice Director, ARRL Roanoke Division

Fin Gold, NC4FG, RARS President

Carl Davis, W8WZ, RARS Past President

Screen captures of some of the slide used in the presentation.

The whole presentation is available on the [RARS website](https://www.rars.org).

February 13, 2024 RARS meeting, continued

TN Tom N4TL, Raleigh (Me)	CB Corky Brunskill	 Marc W4MPS
 Chuck K4RGN Raleigh (Host)	D- Daniel - KD4UNX - Apex	MK Mark KQ4OKC Apex
DK Denny KO4IBL Raleigh	DW Dave W4EIP	MN Mark N1UK
 Fin Gold NC4FG Raleigh	DW dennis wz0q/Raleigh	MW Marty W4MY
AG AJ4YA. Grady	DA Doug AD4UL Melbourne, FL	MK Mike KO7G
 Bill KQ4ICL Raleigh	E- Ernie - N4AEW Youngsville	N- NC4SO - Sean O'Leary - Clayton
WW Wilbur WD4RDT Raleigh	EN Ernie NC4EW Oak Ridge	N- NC4TI - John
AK Al KE4IHX Roxboro	GK Greg KE4PAX Raleigh	RK Richard K7RLH Apex
AA ALAN AB4OZ RALEIGH	JK Jack K8TO, Denver, NC	RK Richard Kroeger N1FUA Apex
BK Ben KN4RFT	JK Jeremy K2HJX Ral.	RK roger k4klk Raleigh
BN Bob N4GEB Clayton NC	JK Jerry KE4TTS Cary, NC	RN Ryan N7RYN Apex
BK Brantley K4CBW	JK Jim KM4WRK, Raleigh	SW Steve W4MGT Raleigh
BW Bruce W8TWT Raleigh	JW Jim, W1XR	TK Tim KC1TWR Carrboro
C- Carl - KM4GBE - Cary	JH John Honeycutt N8ZU Raleigh	TN Tom NC4TS Lake Royale
CW Carl W8WZ New Orleans, LA	JK John KQ4FSP Fuquay Varina	TK Tony K1OC Cary
CS Charles Strickland	KR K4YXM Robert	WW Will WA4GK Durham
CK Chuck, K4HF - Raleigh	K k4zv	
CN Cliff, N3LEX Garner, NC	KL Ken Latchum AD4GX Raleigh	

52 people attended

The NC QSO Party



Chuck, K4RGN, and Tony, K1OC, operating the phone position at N4RAL



Tadd Torborg, KA2DEW; Brantley West, K4CBW; Bruce Woodry, W8TWT; and David Burt, W4OFO

Brantley is operating the CW station at N4RAL.

RARS president Fin Gold, NC4FG, hosted the station at his QTH.

Brantley did a write up for the NCQP. You can read it at this link.

<https://backburner.blog/posts/ncqp-2024/>

<https://www.rars.org>

Monthly In-Person RARS Gathering

Ridge Road Baptist Church, at [2011 Ridge Road, Raleigh](#)

The meeting starts at 7:00 pm in the Fellowship Hall, but we start setting up at 6:00 pm, and you are welcome to bring your own ham radio equipment and projects to demonstrate, show off, or just work on with other like-minded hams -- we have plenty of tables. You might also find sources of coax, connectors, zip cord, Powerpoles®, and whatnot.

Nighttime patterns for AM (MW) transmitters

I came across this in another list. This page displays nice nighttime coverage maps of AM radio stations in the US:

<http://www.nf8m.com/nf8m/us-medium-wave-pattern-references/night-patterns/>

Thanks to Kelly Mills and the Tar Heel Scanner group

RARS License Class Information

RARS is holding Ham Radio Technician Training Classes on March 16, 23, and 30, 2024. The classes will be held from 8:30 AM to 12:30 PM on each day. These classes will help prepare new HAMs to take the test for their first license. Classes will be held at the Good Shepherd Lutheran Church, 7000 Creedmoor Road, Raleigh. The classes will be taught on three Saturday mornings, **starting on March 16th** and leading up to the [testing session at RARSfest](#) on April 6, 2024. The classes will cover all the material you need to know to pass the exam for the entry-level amateur radio license. Instruction will be based on the *ARRL Ham Radio License Manual, 5th Edition*, available from the [American Radio Relay League](#) (you don't need to be a member to buy from the ARRL) and on Amazon.

For more information or to reserve a seat in the class, please contact Denny Oestreich, the RARS Education Director, at telephone number 919-846-8163, or OestreichD@AOL.com. And tell those friends whom you have been trying to get to join the hobby!

<https://www.rars.org>

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Our sympathies are with his family and friends.

Danny Hampton passed away February 28, 2024

Danny was an Honorary member of RARS.

Copied from the March 1, NC Section Newsletter by Marv, WA4NC
NC Section Manager

Anyone who knew Danny knew that his wife, Rose, was a supreme caregiver who gave over much of her life caring for Danny. Please keep her in your prayers as she deals with Danny's passing.

RARS Member Birthdays

Pete	NL7XM	03/
Scott	KQ4KVW	03/01
Carl	KJ4WD	03/01
Marty	W4MY	03/02
Barbara	KK4TLY	03/02
Patrick	K4EEVB	03/03
Patrick	KO4QLU	03/04
Walt	K4ZVK	03/05
Karl	W4CHX	03/06
James	AJ4M	03/08
Rich	KR4AS	03/08
Dan	WA3CUC	03/09
Blaine	KQ4LER	03/09
Matthew	KD9ABR	03/10
Bob	WA4ZZN	03/12
Ed	WE3ED	03/13
Pam	KK4IPN	03/13
Tom	K4ETH	03/14
Ernie	N4AEW	03/14
Walter	N4SW	03/14
Jim	KE4ROH	03/16
Larry	K4LXV	03/17
Roger	K4KLK	03/17
Eddie	WK4I	03/18
Ernie	NC4EW	03/19
Murray	K4MHM	03/20
Chuk	KB4MDZ	03/21
John	W2KI	03/22
Bill	AF4JG	03/22
Greg	KE4PAX	03/23
Mike	KQ4LMG	03/24
Edward	WQ2X	03/25
Dave	K4DME	03/30
John	AF4ZE	03/30

RARS New Members

Mark Lerch	KQ4OKC
Dalton Southerland	W1DGS
Douglas Macklem	KN4DSZ
JD Dwidari	Not Licensed
DJ Clayton Jr	Not Licensed
Janice Parsons	Not Licensed
Darrel Davis	KD4CMA
John Maruca	KK4ETV
Max Sturr	K4TMI
Walter Short	N4SW

February 2024 RARS Net Report

29 2m nets: 347 checkins,

637 minutes duration

3 6m nets: 27 check-ins,

41 minutes duration

Julie Royster, KT4JR, net manager

Next Month's presentation Topic:
Radios on the Battleship North
Carolina

By: Alex Dydula, AG1Q.

HAM RADIO LUNCHEON

Everyone is welcome!

Every Thursday at 11:15 AM, New York Diner,
909 McKnight Drive Knightdale.

<https://www.facebook.com/NewYorkDinerNC>

Check the latest information on the AB4OZ QRZ entry. [QRZ.COM](https://www.qrz.com).

RARS Monthly Supper, IHOP Restaurant

All members and guests are welcome to the monthly (first Tuesday) RARS Supper, 6:30PM, at the IHOP Restaurant, 7471 Six Forks Road, Raleigh. The restaurant is on the corner of Sawmill and Six Forks Roads. After entering the restaurant look for our folks in the dining room. Informal and Dutch, just bring your appetite and best rag to chew.

73, Chuck, K4HF

2024 Antique Radio Charlotte

March 21,22 & 23, 2024!

**Our phonograph friends will be joining us again
[for this conference!](#)**

Free AB4OZ Hamfest, Weather permitting

March 9, 2024.

The free AB4OZ Hamfest will be Saturday, March 2, 2024. Setup at 9AM. Start time is 10AM. New location, Golden Corral Restaurant rear parking lot. 3551 Grenelle street, Raleigh NC 27603. Check the latest information here [QRZ.COM](https://www.qrz.com).

<https://www.rars.org>

RARS MONTHLY SUPPER, IHOP RESTAURANT MARCH 5, 2024



Photo by Jan Lewis

Names clockwise around the table

Dennis Mason, WZ0Q; Fin Gold, NC4FG; Bruce Woodry, W8TWT;
Bob Starkenburg W4TTX; Chuck Littlewood, K4HF; Jon Suen, KG6K;
Walt Chambers, K4ZVK; John Honeycutt, N8ZU; Jonathan Osbrink, KB8QNE;
Tom Lewis, N4TL

RARSfest Volunteer Consignment table

One of the benefits of being a RARSfest Volunteer is the ability to have the Raleigh Amateur Radio Society try to sell a reasonable number of items for you at the Volunteer Consignment Table.

Full information is on the [RARS website](https://www.rars.org) .

Fill out a [sales request form](#) on the website for each item to be sold. On Friday the day before the RARSfest. I will print labels for each item that have been registered on the website. The labels are the removable and don't leave glue behind. When you bring an item to the table on Friday, pick up your labels and put them on your items. At the end of the RARSfest come by and pick up your money for the sold items and the items that did not sell.

73 Tom N4TL

RARS Classifieds

Copied from <https://www.rars.org/classifieds.php>

The items below were listed within the last 30 days on the RARS website.

Check the RARS Classified List on the RARS website regularly for new items.

Marantz 4001 Surround Sound, Tech Special...free

Posted March 3rd, 2024 by: W8TWT

Contact: flightdeck@charter.net

I have a Marantz 4001 surround sound looking for a new home. Not sure what is wrong, will not power up. Do not have time to check it out.

Vibroplex CW Bug & Single Lever Paddle

Posted March 2nd, 2024 by: W4MGT

Contact: jenx4321@gmail.com

Vibroplex Bug s/n 269387. Gray base, Brass plate with Red bug. Black paddle. \$80

Vibroplex Single Lever Paddle s/n 261764. Tan base, Brass plate with Red bug. Red paddle. \$70

Both work well. I tried them. I prefer iambic paddles.

Realistic HTX-100 10 meter SSB/CW Mobile Transceiver

Posted March 2nd, 2024 by: W4MGT

Contact: jenx4321@gmail.com

The 11 year sunspot cycle is near the peak. 10 meters has been open, and should only get better in the Spring and Summer. Now is the time to get on 10 meters. This is a classic Radio Shack Realistic HTX-100 Mobile Transceiver. 25 Watts output. CW and SSB (USB). Includes Manual and classic Astatic D-104 lollipop microphone.

\$150

RARS Classifieds continued

hard drives found a new home

Posted February 26th, 2024 by: W8TWT

Contact: flightdeck@charter.net

Will also have computer parts in the next few weeks.

VHS Tapes for Adoption

Posted February 21st, 2024 by: W4BOH

Contact: infomet@embarqmail.com

Quite a pile, 30 or more, free, Hillsborough. Quality material. Wilson

ANDREW HELIAX - FOR SALE

Posted February 12th, 2024 by: W4CX

Contact: dargordo@gmail.com

Two lengths of FSJ4-50-B Andrew Heliax cable

1x80 feet (\$90.00)

1x100 ft (\$120).

Each is pre-connected with Male type N connectors. Located in North Raleigh. Will deliver for free in Wake County.

73 de Darrell W4CX

(919) 306-7699

dargordo@gmail.com

For Sale: External Desktop Hard Drives - Western Digital and Lacie

Posted February 12th, 2024 by: KA9QJT

Contact: ka9qjt@hotmail.com

Western Digital 465GB (black) with power supply and USB cable - \$15

Lacie 232GB (silver-gray) with power supply and USB cable - \$10

They are used, of course. Both are clean and passed their PC health checks.

Located: North Raleigh, near Capital Blvd. and Durant Rd.

Email Brian - KA9QJT@hotmail.com if interested.

RARS Classifieds continued

Hallicrafters SR-160 tri band transceiver

Posted February 12th, 2024 by: N4TL

Contact: n4tl2@yahoo.com

Hallicrafters SR-160 tri band transceiver with power supply. Very clean, no rust and working. Includes manual and Turner SSB Microphone 454X. SR-160 fixed by WDØGOF in August of 2014. Come and check it out before buying. asking \$250. I prefer not to ship, pickup in Raleigh NC. I will be at the CC-AWA meeting in Charlotte NC, March 21-23, 2024 and can bring it there.

73 Tom N4TL

Three EICO 753 transceivers

Posted February 12th, 2024 by: N4TL

Contact: n4tl2@yahoo.com

Three EICO 753 transceivers with one matching EICO 751 power supply. The PS has new capacitors. Number one puts out 100 watts. Number 2 transmits but the power out is low. Number 3 receives but no power out. Clean, no rust. Includes manual. \$150 for all of them. I prefer not to ship, pickup in Raleigh NC. I will be at the CC-AWA meeting in Charlotte NC, March 21-23, 2024 and can bring it there.

73 Tom N4TL

Astron RS 7A power supply

Posted February 10th, 2024 by: WZ0Q

Contact: wz0q@outlook.com

For sale astron RS-7A power supply.

Works fine.

Asking \$25.00 or OBO.

Email me or call

919-413-5998.

Dennis

Wz0q.

RARS Classifieds continued

Desk Mic Stand

Posted February 9th, 2024 by: WA4OSS

Contact: wa4oss@nc.rr.com

New condition - Never used - found a better fit for my desk.

JS-DMS50 Desktop Microphone Stand - \$10.00

JamStands brand.

Baofeng uv-5R ht

Posted February 9th, 2024 by: WZ0Q

Contact: wz0q@outlook.com

Forsale Baofeng UV-5R. Comes with original box, manual
Charger. PROGRAMMING CABLE, ANTENNA AND BATTERY.
ALL LIKE NEW CONDITION.

ASKING \$25.00 OBO.

EMAIL ME OR CALL 919-413-5998.

DENNIS WZ0Q

For Sale ACOM 2000A Linear Amplifier, Excellent working condition. 1500 watts.

Posted February 8th, 2024 by: K8SL

Contact: rkandersson@hotmail.com

The ACOM 2000A Automatic HF Linear Amplifier is the world's most advanced HF amplifier designed for amateur use. The ACOM 2000A is the first amateur HF amplifier to include both fully automatic tuning and sophisticated digital control capabilities. This revolutionary new amplifier delivers maximum legal power in all modes and operates on all HF amateur bands.

At the core of the ACOM 2000A is a classic HF amplifier design, employing two Svetlana 4CX800A (GU74B) high performance ceramic metal tetrodes operating in a grid-driven configuration.

\$3,000

Contact by email RKAndersson@hotmail.com

RARS Classifieds continued

Lafayette KT-200

Posted February 6th, 2024 by: KE4VNC

Contact: ke4vnc@gmail.com

cosmetically it's in nice shape and we brought it up slowly at one of the RARS gatherings without any bad things happening, but aside from a low hum in the speaker there isn't any audio and I don't have time to troubleshoot it further. Free to a good home!

Vibroplex Bencher RJ-1 Black Base hand key.

Posted March 4th, 2024 by: N4TL

Contact: n4tl2@yahoo.com

Vibroplex Bencher RJ-1 Black Base hand key. Has ¼ inch plug with gray coiled cord. New in the box. \$80. Contact me via email. N4TL

Begali Simplex Iambic Key with gold plate base and blue aluminum finger pieces

Posted March 4th, 2024 by: N4TL

Contact: n4tl2@yahoo.com

Begali Simplex Iambic Key with gold plate base and blue aluminum finger pieces.
No call is engraved on the key. With plastic dust cover. \$200.

The current cost of the key, plus the special finger pieces and shipping is \$239

Key, gold + al finger pieces + shipping

159 + 30 + 33 = 222 euros = 239 dollars

Save \$39 on this one.

Contact me via email. N4TL

Minutes, Board of Directors Meeting

Raleigh Amateur Radio Society

January 16, 2024

7:00 PM on Zoom

President Fin Gold called the meeting to order at 7:02 pm. He asked if any visitors were present, but there were none. He requested Secretary Julie Royster to make a quorum call. There were 15 board members present at the time of the count, constituting a quorum. BOD members attending were: Fin Gold NC4FG, John Honeycutt N8ZU, Howard Goodman N4KYW, Tadd Torborg KA2DEW, Julie Royster KT4JR, Tony O'Connor K1OC, Chuck Till K4RGN, Curt Phillips W4CP, Alan Pitegoff AB4OZ, Greg Seamster KE4PAX, Nancy Torborg KB2TNR, Brantley West K4CBW, Denny Oestreich KO4IBL, Richard Hall K7RLH, Jeremy Lindsley K2HJX, Richard Kroeger N1FUA, Ken Latchum AD4GX, and Chuck Littlewood K4HF.

President Gold asked for a motion to approve the minutes from the November 2023 Board Meeting. Chuck Till so moved and the motion was seconded and passed unanimously.

Old Business

President Gold reported that

- the NC QSO Party club station question has been resolved,
- the inappropriate content on Facebook has been resolved,
- regarding the issue of whether the IRS requires prizes of > \$600 to be reported, Nancy Torborg feels that it should be up to the winner to declare this income if needed.

New Business

President Gold welcomed new board members and chairs, Denny Oestreich, Julie Royster, Richard Hall, Howard Goodman, and David Burt.

President Gold requested that [Chuck Littlewood K4HF](#) would chair the awards committee to identify members to receive awards at the March meeting.

RARS Board of Directors Meeting minutes continued

President Gold described his intended 2024 initiatives as:

- sharing documents on Google drive (see upcoming guidelines) and social media optimization
- forming an ad hoc committee to address better engagement for existing members, new members, new hams, and the public. If you are interested in being on this committee, you are welcome.

Repeaters: President Gold called on Alan Pitegoff to describe repeater status. Alan stated that output from Bayleaf is low because it is an old repeater with no spare parts available, so it needs to be replaced. Alan suggested to buy a new Motorola repeater for Bayleaf and also a new one of the same model for the 64 repeater. RARS has an antenna that is a few years old but has never been installed, and Alan now suggests to pay for professional installation, which is expensive. Some coax is available at no cost. Fin has discussed these issues with Chuck Decourt and Alan. Fin recommends to get hard details to present to the board to consider the considerable expense. Alan says Danny Hampton can get a loaner repeater for Bayleaf by February 1. Tadd Torborg says DX coverage of Bayleaf is out to I-40 in Burlington and east to Princeton, but mobile coverage is much less, so repeater range is very restricted and needs to be wider like it used to be. Treasurer Greg Seamster says monies have already been authorized and the repeater committee has already made recommendations. Fin says we need to plan further and get quotes before spending the money. Chuck Till asks what the status is of the 13 repeater out at RTP, how much usage it is getting, and its cost. Alan says the idea was to link RTP to the 64 repeater, but with the lack of use do we really need it? We could just let it run with no expense except internet connection as long as it is working. Tadd wants to talk with the repeater committee, which is chaired by Chuck Decourt with Alan Pitegoff as the only other member. Tadd will talk to Alan. Greg says the antenna (that has not been installed) was bought in 2019 for \$1800 from Primus Electronics as a custom build, commercial grade.

Officer's Reports

Vice-President's Report Chuck Till K4RGN

Chuck is actively recruiting speakers for spring meetings.

Treasurer's Report Greg Seamster [KE4PAX](#)

RARS has 436 current members.

RARS Board of Directors Meeting minutes continued

Secretary's Report

Julie Royster KT4JR

Minutes are up to date.

Committee Reports:

Public Service Director

Jeremy Lindsley, K2HJX

The schedule is starting to develop for 2024. Jeremy publicizes volunteer requests on the Facebook page of HPSNC and the RARS Facebook page.

Public Information Officer

Howard Goodman, N4KYW

Howard's audio was unintelligible. He reported via email at the close of the meeting that he intends to establish reliable contacts within organizations such as STEM and Scouting, who could help us promote amateur radio as an adjunct program.

Education Director

Denny Oestreich, KO4IBL

The last classes were 3 years ago arranged by Carl Davis. RARS will resume tech classes on Mar 16, 23, and 30 at maybe 9:30 – 3:00 pm, and students can take exams at the RARSfest. Denny registered at ARRL as an instructor and plans to use ARRL slides, 3 chapters per class. We need at least 3 more instructors. Tony has volunteered. Carl gave handouts to the students including info on RARS and ARRL, and he gathered catalogs. Denny asks members to save QST magazines to give to students. He will advertise to get students. He needs recent copies of the tech license manual to loan to students. The most pressing need is for additional instructors. Chuck Till suggests circulating specific day & time needs plus the topic to be taught in each time slot. Richard Kroeger and Brantley West volunteered to instruct. Tadd Torborg says we need to give people a list of links, and suggests that Denny look at the handout Tadd made for new hams. The physical site choice is under consideration.

Field Day Chairs

Curt Phillips, W4CP and David Burt, W4OFO

Curt W4CP reports he and David Burt have begun planning for 2024 Field Day at the Raleigh Police Club, but they need to confirm this site reservation.

RARS Board of Directors Meeting minutes continued

Club License Trustees

Tom Lewis, N4TL

Tom sent an absentee report which Fin summarized. Tom is in the process of changing the W4RNC trustee from KM4JRH to Chuck DeCourt, and this needs to be formalized in minutes for ARRL, but Fin says not tonight. Alan asks if we should make a proposal tonight about this. Fin says he needs to get back to Tom, then come back to the BOD for final approval.

RARSfest Chair

Nancy Torborg, KB2TNR

The committee is meeting weekly about details for the fest. Ticket sales begin Jan 30. BOD members are urged to tell members of other clubs to come to the RARS meeting in March when the program will be about RARSfest. Ham World is unable to participate. It is hard to get vendors to travel for a 1-day event. It is adequate for IRS compliance to advise winners to declare any \$600 prize received, and we already have a statement on the website about this. Some clubs require vendors to prove that they collect sales tax. We have never done this. Jeremy says the club does have a duty to ensure that vendors are reporting taxes, but Jeremy suggests that we just inform the vendors and flea market sellers that they have this responsibility for legal compliance. We will put this legal requirement on our website.

The fairground still has not sent a contract, so we are not yet assured of the cost. Our next big need is for volunteers to man various posts. We will incentivize volunteers with T-shirts and free admission. The fairground has erroneous information on their website and Nancy will correct this. Brantley asked if we should have vendors check a box that they will collect sales tax, and the committee will consider this. Nancy praised Brantley's development of a page on what you can do with a new technician amateur radio license and suggested making a display about this at RARSfest.

Exciter Editor

Tom Lewis, N4TL

Tom sent a written report. Input for each Exciter issue is due 10 days before the Second Tuesday of each month. Sometimes the net report falls a day or so later. That is okay. He will print the list of past RARS officers in the Exciter, and Tony has put this list on the website as a link from the RARS contacts page.

Food Service Chair

Richard Kroeger, N1FUA

There will be food at the January gathering.

RARS Board of Directors Meeting minutes continued

Net Manager

Julie Royster, KT4JR

Fin has suggested hosting topical nets, and all suggestions are welcome. 6m nets are going well on Monday nights. Jeremy Lindsley states that he is considering having monthly discussions about public service, but the 64 repeater might not be the best location for this. Tadd Torborg asked if Julie is aware of Friday noon nets on the 440 repeater about NC Packet. Julie was unaware and asked whether this is an official RARS net. Fin says we could have many different types of topical nets, such as new ham nets. We would need net controls who are expert in the topical areas. We could also include some occasional topical presentations in the regular nightly 8 pm net. Julie is receptive to all these ideas and agrees to further planning.

NC QSO Party Chair

Marty Young, W4MY

Marty was not present but Fin described that there will be a club station, and Fin will present about this at the February RARS club meeting. Fin encouraged BOD members to attend.

RARS VE Coordinators

Richard Hall, K7RLH

There will be testing at the 4th Tuesday testing in February. The time for testing at RARSfest will be 9-noon. Preregistration will be suggested and the 5-county group will list RARSfest on their website so that people can preregister to make it faster.

Youth Chairman

Brantley West, K4CBW

There has been rekindled discussion with Centennial Middle School about ARISS. John Breyer KG4AKV has volunteered to go talk with students and hopefully the school will confirm soon. The NCSU ham club resumes nets biweekly this semester. Brantley announced licensing class, QSO party, and POTA on the NCSU nets. The NCSU club has expanded their station and have a new radio on the way. They will resurrect beams that have been in storage and may have all HF bands up soon. Their net is on 442.675 W4ATC.

At Large Director

Tadd Torborg, KA2DEW

The committee for the Gatherings is looking for demos for the monthly RARS gatherings.

RARS Board of Directors Meeting minutes continued

Other comments from Board Members

Greg Seamster asked about the awards committee. Chuck Littlewood had verbally agreed to lead the awards committee and he replied via chat that yes, he can do this. Greg is starting to compile a list of lifetime members and honorary members. Greg reports that we have some inactive life members and some honorary members who currently are included in the membership count upon which the quorum call is based, and we might want to adjust for this to make it easier to obtain a quorum. Fin asks how many people this might be, and how would we define “active.” Julie Royster stated that there are members who are active in RARS nets but who do not attend club meetings. Fin also says we should look at our articles of incorporation and our bylaws regarding this question.

Greg says we need to look at our current listing with the Secretary of State of NC. Bradley Warren has been our registered agent since 1999. Fin asked who is responsible for this. Greg will check the bylaws.

Adjournment

President Gold asked for a motion to adjourn, and it was so moved by John Honeycutt, seconded, and agreed unanimously. The meeting was adjourned at 8:14.

Some BOD members held additional informal discussion after adjournment.

Respectfully submitted,

Julie Royster, KT4JR, RARS Secretary



MINUTES

RARS Club Meeting, February 13, 2024

President Fin Gold, NC4FG, called the meeting to order at 7:30 pm on Zoom. He reminded participants of several tips about using Zoom. He led participants in the Pledge of Allegiance to the flag of the USA.

President Gold reminded participants that RARSfest is coming soon, advance ticket sales are open, and the volunteer signup is open.

New members and visitors present introduced themselves:

Mark Lerch, KQ4OKC (new member)

Mark Robinson, N1UK (visitor).

President Gold asked Vice President Chuck Till, K4RGN, for a quorum call, and he reported that there were 45 members present, constituting a quorum.

President Gold asked for a motion to approve the minutes of the December 2023 meeting. John Honeycutt, N8ZU, so moved and the motion was seconded and approved. President Gold then asked for a motion to approve the minutes of the January 2024 meeting. John Honeycutt so moved and the motion was seconded and approved.

Vice President's Report or announcements – Chuck Till, K4RGN

The program for April will be given by Alex Dydula, AG1Q, who has been deeply involved in the radio configuration for the battleship USS North Carolina in Wilmington, NC. The March program will be all about RARSfest.

Treasurer's Report or announcements – Greg Seamster, KE4PAX

There are currently 445 RARS members. RARSfest income has begun coming in with advance ticket sales, and some initial expenses have been paid. The rent for the upcoming Field Day site has been paid.

Announcements or Reports from Directors

Announcement from Alan Pitegoff, AB4OZ

The free AB4OZ fest will be held Saturday March 2, weather permitting.

[Jump back to page 6](#)

RARS General Membership Meeting minutes continued

The Charlotte hamfest will be held March 8-9. RARSfest will be held April 6.

The Winston-Salem hamfest will be held April 13.

Announcement from Jeremy Lindsley, K2HJX

The full schedule of public service events is posted on both the RARS website and the HPSNC website. Volunteers can sign up for any of the listed events now. For interested hams who have not served at an event previously, other team members can assist you regarding the procedures and can even loan you equipment for the day of the event. Volunteers are needed for a busy public service season. If interested please contact Jeremy. The Wilmington marathon on February 24 may need a few more volunteers. The Odyssey of the Mind on March 2 is also coming up soon, as well as the Walk MS on March 23. Speaking as RARSfest volunteer coordinator, Jeremy also encouraged members to sign up to assist at RARSfest.

Announcement from Richard Hall, K7RLH

The RARS VE team will conduct license exams at 6 pm on February 27 at the Ridge Road Baptist Church, prior to the RARS gathering.

Announcement from Brantley West, K4CBW

Since our last meeting we have had two portable events, one at Beaver Dam in 37 degree weather, and one radio orienteering event. Members will receive emails about additional upcoming events. ARRL School Club Round-Up is February 12-16, so members are encouraged to contact students on the HF bands. RARS has equipment (HF stations and satellite stations) that can be loaned to members upon request.

Announcement from Denny Oestreich, KO4IBL

RARS will hold technician class training March 16, 23, and 30 at the Church of the Good Shepherd on Creedmoor Road, following by license testing at RARSfest. Five instructors have signed up, but three more are needed, as well as some assistant instructors. Five students have already signed up, and about ten more students are welcome. If anyone has suggestions for advertising the class, please tell Denny.

President Gold announced that the next Board Meeting will be held at 7 pm Tuesday, Feb 20th on Zoom, and any RARS member is welcome to attend.

President Gold asked for any other announcements or reports from directors or members, but there were none.

RARS General Membership Meeting minutes continued

Program

VP Chuck Till, K4RGN, introduced the program, 2024 NC QSO Party, presented by Fin Gold, NC4FG. The date for the 2024 event is February 25. Full information can be found at www.NCQSOPARTY.ORG Members will receive an email about visiting the RARS club station to help operate, or just to observe. All members are encouraged to join the QSO party from their own homes or from mobile locations. The program concluded with a Q&A opportunity.

Adjournment

Following the program, President Gold asked for a motion to adjourn the meeting. The motion was made by Chuck Till, seconded, and passed. The meeting was adjourned at 8:30 pm. After adjournment the Zoom meeting continued informally.

Respectfully submitted,
Julie Royster, KT4JR, RARS Secretary



June 22-23 2024

Solar Eclipse QSO Party

Dear ARRL Public Relations Community,

As you may know by now, ARRL is partnering with HamSCI to help communicate the Solar Eclipse QSO Party. This is an amazing public relations opportunity for amateur radio as local clubs get involved in this major set of experiments.

You do not have to be near totality to get your local media to report on how ham radio is helping advance scientific understanding during the eclipse. Hometown outlets will be eager to localize this international story.

The lead HamSCI organizer is Dr. Nathaniel Frissell, W2NAF, Professor at the University of Scranton. Through the University, he's got the support of a Public Relations professional, Bill Johnson, to place the story in local markets across the country. Bill is eager to identify local hams or clubs that are planning to participate in the eclipse operations. He'd like to work with you to help pitch to the media in your area, with the benefit of also having Professor Frissell as a source.

If you are interested in working with Bill or can help him identify hams in your area to pitch stories about, his phone number is 484-379-6571. His press release follows.

73,
Sierra Harrop, W5DX
ARRL Public Relations and Outreach Manager

U of Scranton Professor Leads National Team of Ham Radio Operators Studying April 8 Eclipse Effect on Ionosphere

Contact: Professor Nathaniel Frissell, U of Scranton, cell 973-787-4506; Nathaniel.frissell@scranton.edu; Stan Zygmunt, Scranton Communications, stan.zygmunt@scranton.edu; Bill Johnson, 484-379-6571.

On April 8, a rare total solar eclipse will occur across North America, something that won't happen again until 2044. There will be a shadow across the Earth from Mexico to Canada. It's also a golden opportunity to study some of the sun's secrets and shed light on its impact on Earth.

Professor Nathaniel Frissell is working with students at the University of Scranton, collaborators at Case Western Reserve University, the University of Alabama, New Jersey Institute of Technology, and volunteers across the nation to study this once-in-a-lifetime event. He can discuss:

How ham radio signals traveling through the ionosphere can lead to a better understanding of the impact of ionospheric disturbances, which in turn can affect crucial navigation and communications systems.

How his team assembled ham radio operators across the nation in a [NASA-funded citizen science project](#).

Hundreds of operators, [known as the HamSCI Network](#), will beam radio signals to each other to monitor the effects on Earth's upper atmosphere. Wherever the moon's shadow falls, it cuts a hole in the ionosphere and blocks x-ray and ultraviolet energy from the sun. When this happens, ionization slows or stops. Past experiments have shown that changes in the ionosphere's electron content due to solar eclipses had significant impacts on how radio waves travel. Such waves are crucial in communications and navigation.

Details of this time-sensitive, information-rich opportunity for running unique and controlled ionospheric experiments.

How, during the 2017 eclipse, Frissell's team found that the ionosphere behaved very similar to nighttime, as radio signals traveled farther, and frequencies that typically work best at night became usable. And how he hopes to continue the comparison between eclipses and the day/night cycle, assessing how widespread the changes in the ionosphere are and comparing the results to computer models.

Students at Scranton will help researcher analyze this data and compare results to physics-based models.

Sierra Harrop, W5DX

Public Relations and Outreach Manager

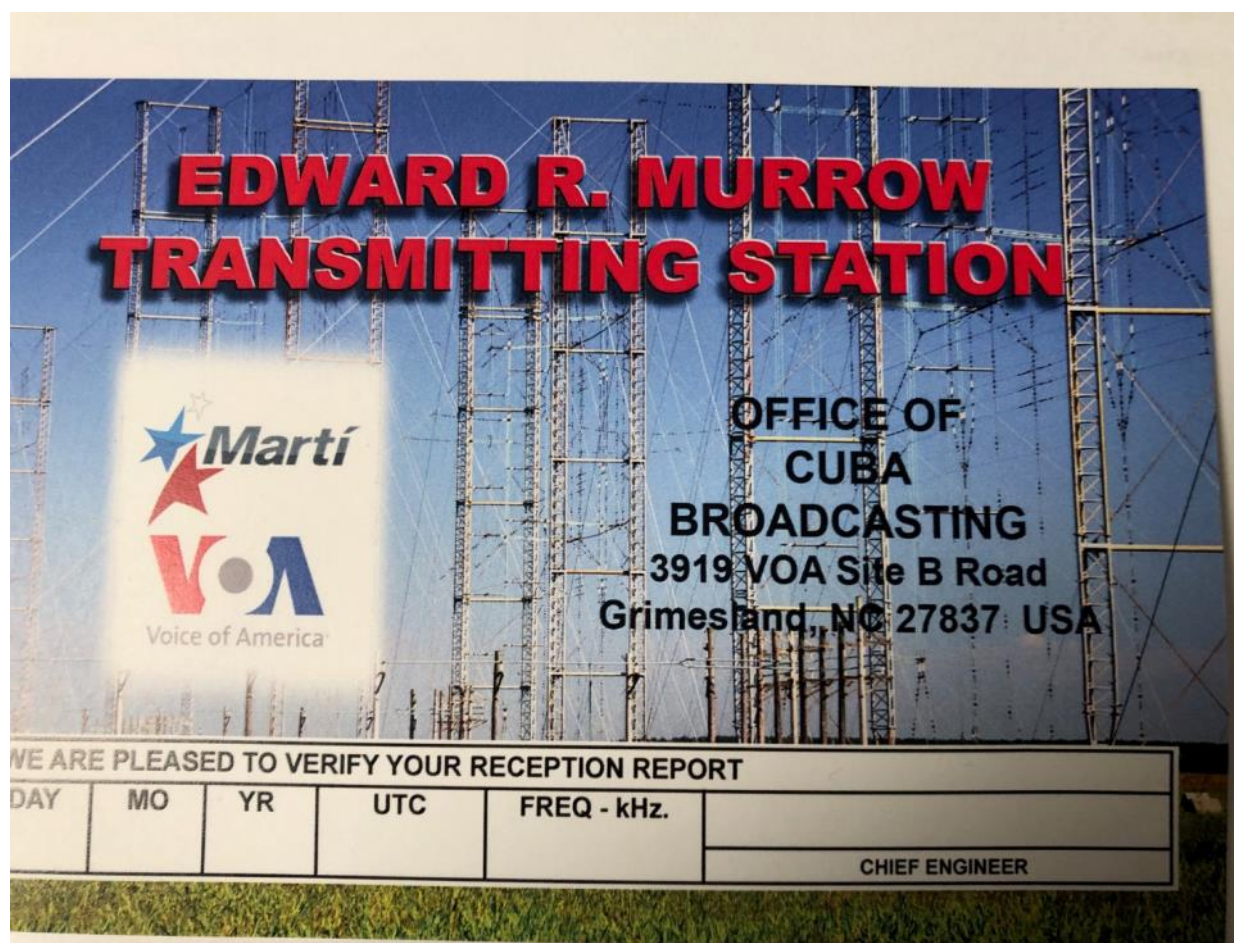
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Thanks to Charles Good, KM4AMT, for sending this to the Exciter.

Voice of America Site B, the Edward R. Murrow Transmitting Station in
Grimesland, North Carolina: A “Under the Hood” Visit by
Bob K4RLC & Dale W4AUV

Last month, Dale W4AUV and I were treated to a “under the hood” visit to the last remaining Voice of America transmitting station in the United States. It is located in eastern North Carolina, and officially known as the “Edward R. Murrow Transmitting Station” part of the “Office of Cuba Broadcasting” in Grimesland, North Carolina. Also, known as “VOA Site B.” This type of shortwave broadcast station is only one of a few remaining worldwide.



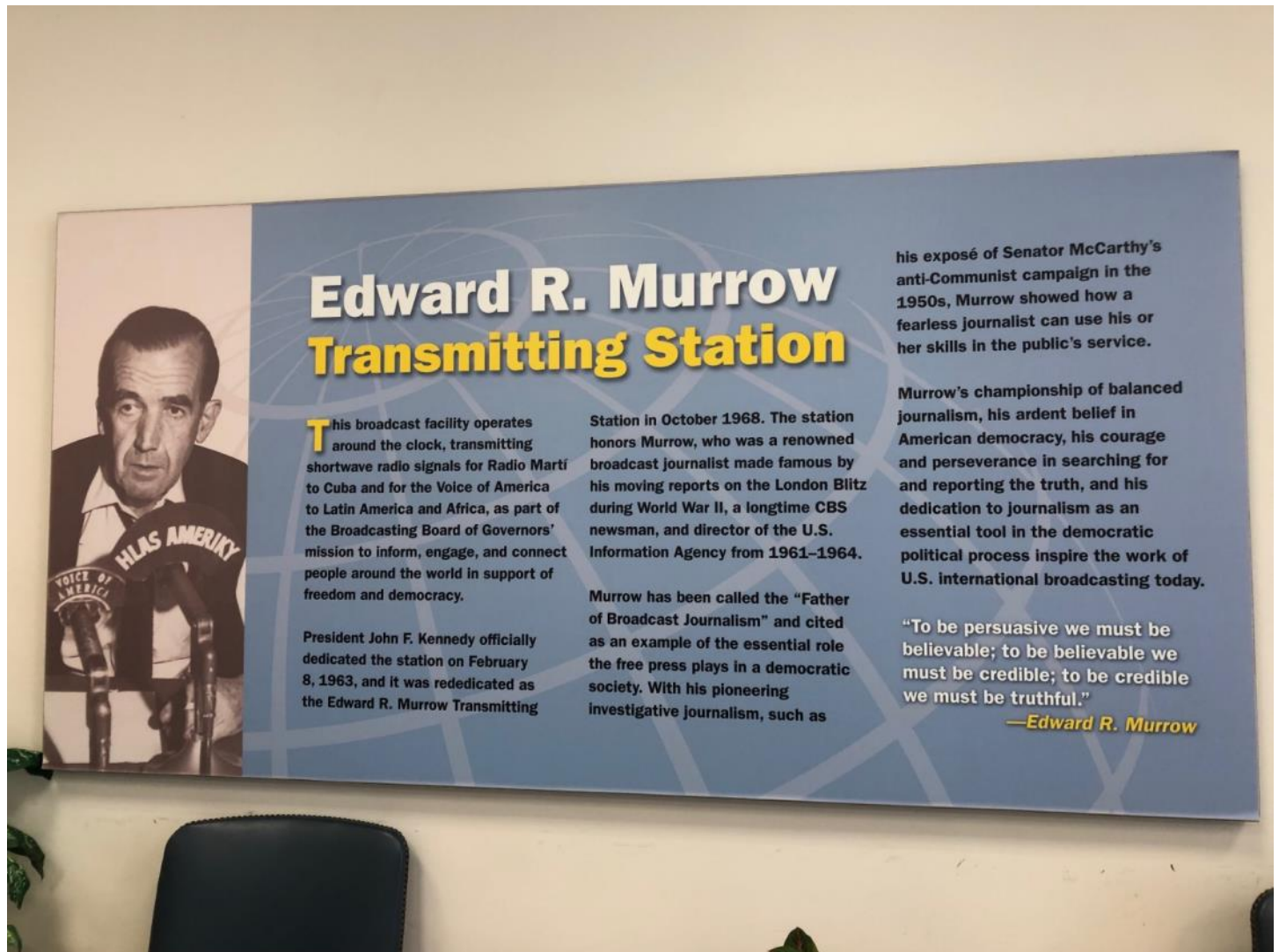
VOA QSL Card showing some of the 38 antennas

This VOA site has been on the air continuously (24/7/365) since the 1963 on-site dedication by President John Kennedy, broadcasting up to 8 transmitters at a time on the international shortwave bands. There are three 250,000 watt and five 500,000 watt GE, Continental and Telefunken transmitters feeding 38 possible antenna configurations, with an Effective Radiated Power of 2,000,000 watts. (There is also a 39th antenna,

that is a Dummy Load that will handle 500,000 watts). The antenna field covers over 6,000 acres of flat, coastal plain wetlands, not far from the Atlantic Ocean, so it has a minimal absorption factor and a salt water boost.



Front of VOA Edward R. Murrow Transmitting Station (Dale on front steps)



Wall plaque in lobby explaining the legacy of Edward R. Murrow, who became known while a CBS Radio correspondent in London, broadcasting during the "Blitz" the infamous bombing of London by the Nazis during WW2



TCI “Curtain” antenna made of 4 dipoles wide & 6 dipoles high, pointed at Cuba. It is controllable in both vertical and horizontal azimuth, depending on the configuration has to up 23dB gain at a 4 degree take off angle

The antennas are fed by over 26 miles of 300 Ohm open line “ladder line” rated at 500,000 watts, with a minimal SWR and hardly no signal loss over great distances. The largest antennas are called “Curtain” antennas, given their configuration, of matched horizontal and vertical dipoles suspended between large towers, giving the visual impression of huge curtains. There are also rhombics, each 6 wave lengths long. The rhombics are not used as often, given their narrow bandwidth and narrow beamwidth. The Curtains can bathe a large geographic area (such as part of a continent) with a very strong signal. The primary broadcast areas for this station are Cuba, Central and South America, and Africa (although the antennas could reach out and touch Russia and eastern Europe, when needed).



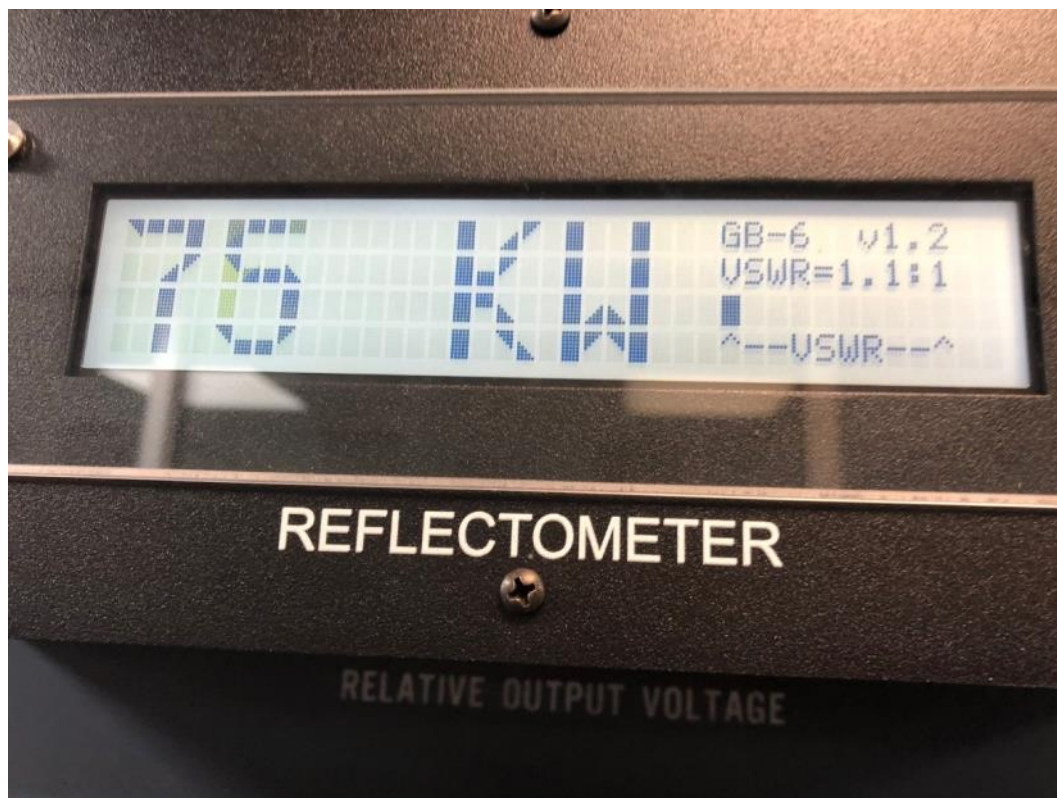
Curtain and Rhombic antennas fed from the antenna switching center



Glenn W7GSW showing DaleW4AUV features of the GB-6 500KW transmitter console in the large 8 transmitter control bay



GB-6 Transmitter Monitor & switches



The antennas are well constructed & fed with minimal-loss open feed line. Note SWR of 1.1:1 at 75,000 watts !



Glenn & Dale studying the transmitter output in the main control room complex



Larger control panel for each transmitter. Note image of “Casper the Friendly Ghost” over the meters for GB-7: There are current problems with the transmitter and, in technical terms, “it’s spooked” !



Antenna switch controller for matching the 8 transmitters with 38 antenna configs.



Left: Glenn & Dale examining the open feedline from Switching station to antenna fields-The 8 transmitters can be connected to any of the 38 antennas ; Right: Feed line conduits from Transmitters to Antenna Switching station

Many of the engineers are hams, including Macon, the chief engineer. Gary N2AD transferred to Greenville when the VOA in Bethany, Ohio closed. (The Bethany VOA site operated during WW2 into Germany, and was referred to as the “Ohio Liars” by Hitler !) Glenn W7GSW, a US Navy communications vet, has been at the site many years and conducted much of the tour for Dale and I.

As the transmitters are no longer manufactured, the ham engineers fortunately have the ability to repair components or make them from scratch. When we visited, in the tech Lab, Macon was tweaking a relay switch he made. On another table, was the original “bread board” layout of the switch. In addition to an electronic shop, there is a full mechanical shop with lathes and grinders for fabrication of mechanical components.



VOA technician crawling into “guts” of a 500KW Transmitter

The transmitters are so large that you can walk inside them....with care. For one, Glenn made sure the 13,000 plate voltage was cut and the capacitors had been discharged with a “dead man’s wand.” There were multiple fail safe lock sequences before one could enter the final stage of the transmitter. Above is a photo of one of the technicians crawling inside the transmitter to make repairs. In addition to heavy voltage, the components can weigh a few hundred pounds and require a mechanical lift for disassembly. And, as one can imagine with voltages this high, temperatures are extremely high and require a water cooling system, as well as a very cold transmitter room.

There is also a huge machine shop, as mechanical components have to be repaired or fabricated. Below is a photo of Glenn with a lathe in the well-equipped machine shop.



Tuning coils for finals – note the entire tube config is on a rotator

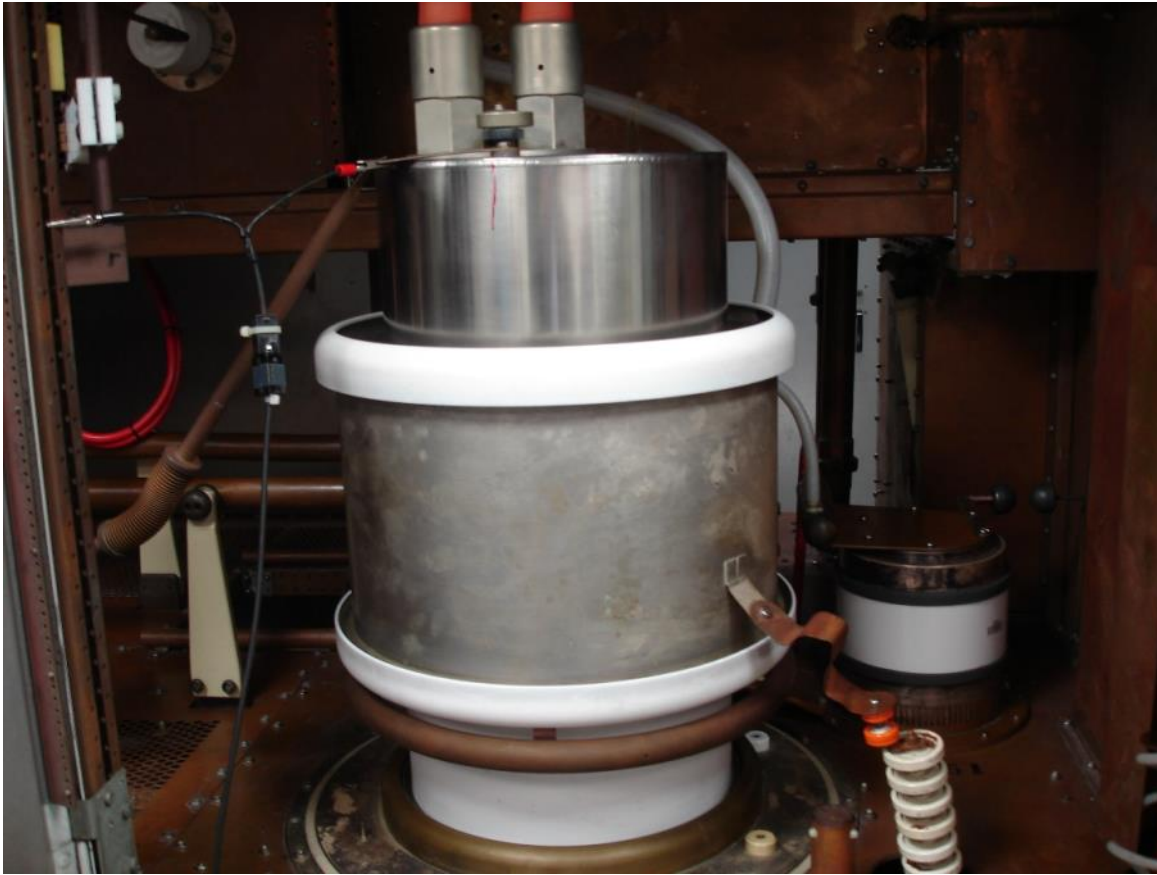
External weather in eastern North Carolina adds to problems, given the high temperatures and high humidity levels in the summer. Also, this area has been plagued by hurricanes, but the antenna system has a wind rating of around 250 MPH, and has never been bothered by a hurricane. If the high voltage lines feeding the plant were to come down, there are back up Diesel generators that can run the station.



Glenn pointing at Modulator Cabinet for the GE 250KW Transmitter



Old fashioned tubes that will fry you; Note Plate voltage of 13 KV



CQK 650-1 Tetrode tube. Final in one 500KW Transmitter. At 100% modulation, produces 2 Million watts PEP. This tube costs nearly \$350,000

The entire area is a nice RF field, possibly exceeding RF limits, but multiple signs warn of this. Gary has been at the facility since it opened and is not showing adverse signs from RF, nor is Glenn (maybe RF is good for one's health). As a test, the ham operators may have brought in an Elecraft K2 QRP rig and loaded to one of the 15dB gain antennas. Excellent results, as would be imagined. Glenn cautioned that the RF field there is so strong that it would overload popular SDR radios, like the IC-7300.



While our focus was on the technical details of the station, it is worth noting the purpose of the station. In the words of Wilford Owens, station manager, it is to "...provide reliable news and information about

America and the world to our foreign audiences." Some question the relevance of shortwave broadcasting in a time of sophisticated technology. Here are some answers: first, radio is a proven medium and still the primary information and entertainment medium in undeveloped parts of the world. In fascist and totalitarian countries, the internet is blocked and those who try to access it are monitored and threatened. Radio has no limits, as it is an electromagnetic wave, transversing oceans and penetrating artificial political boundaries. Finally, the Voice of American Jazz Hour (playing cool, "Blue Note" Jazz) was credited with helping bring down the "Iron Curtain" as the Russians loved American Jazz and felt the freedom in this form of music.

After the lengthy visit, we left with great admiration for the engineers and ham-engineers who use their technical expertise to keep this aging behemoth station running 24/7/365. And you can easily tell it's not just their technical expertise, but their love of the equipment and of radio that keeps it going.



Macon WB4PMQ (right) VOA Chief Engineer with K4RLC Bob

Thanks to Macon WB4PMQ, Gary N2AD and Glenn W7GSW for such a personal and educational tour of the technical complexities of VOA Site B. Thanks to Dale W4AUV for arranging the tour, through his membership in the Society of Broadcast Engineers; Dale is an engineer for WCPE-FM "The Classical Station".

(PS-I posted a previous article on "Activating the VOA." Site A was unfortunately decommissioned, and the 24 antennas destroyed. It is now a Game Land area owned by the North Carolina Wildlife Commission, and a POTA Site: K-6964. I was also able to "activate" VOA Site C, a receive only "spy" station, with the local Brightleaf Radio Club for the NC QSO Party, about 25 years ago. Site C has 4 massive Rhombic antennas; we loaded up the one that had a name plate at the feed point stating it's aimed direction as "Moscow."

73 de K4RLC Bob 02.16.24

March 2024 Exciter contents

1. Meeting information, General (Zoom) and RARS Gathering in person.
2. RARS*fest* information
3. President's message
4. February 2024 RARS Zoom meeting information and pictures.
5. NCQP by Fin Gold, NC4FG
6. Attendees list, 52 people attended.
7. NCQP pictures during the event
8. Monthly In-Person RARS Gathering
9. Nighttime patterns for AM (MW) transmitters
10. RARS License Class information
11. Deepest Sympathies
12. RARS Member Birthdays and new members
13. February 2024 RARS Nets Report
14. Ham Radio Luncheon, every Thursday
15. RARS Monthly Supper, IHOP Restaurant, information
16. 2024 Antique Radio Charlotte
17. Free AB4OZ Hamfest, March 9, weather permitting & other Hamfests
18. RARS Monthly Supper, IHOP Restaurant, picture
19. RARS*fest* consignment table
20. RARS Classifieds, 5 pages.
21. RARS Board Meeting Minutes, January 2024.
22. RARS Membership Meeting minutes, February 2024
23. Solar Eclipse QSO Party information
24. Voice of America Site B, the Edward R. Murrow Transmitting Station
25. This list